

Geraint Harker

List of Publications by Year in descending order

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35
papers

2,454
citations

236925

25
h-index

414414

32
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all docs

35
docs citations

35
times ranked

1457
citing authors

#	ARTICLE	IF	CITATIONS
1	Upper Limits on the 21 cm Epoch of Reionization Power Spectrum from One Night with LOFAR. <i>Astrophysical Journal</i> , 2017, 838, 65.	4.5	219
2	Probing ionospheric structures using the LOFAR radio telescope. <i>Radio Science</i> , 2016, 51, 927-941.	1.6	95
3	THE EFFECTS OF THE IONOSPHERE ON GROUND-BASED DETECTION OF THE GLOBAL 21 cm SIGNAL FROM THE COSMIC DAWN AND THE DARK AGES. <i>Astrophysical Journal</i> , 2016, 831, 6.	4.5	24
4	Parametrizations of the 21-cm global signal and parameter estimation from single-dipole experiments. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 3829-3840.	4.4	28
5	INTERPRETING THE GLOBAL 21-cm SIGNAL FROM HIGH REDSHIFTS. II. PARAMETER ESTIMATION FOR MODELS OF GALAXY FORMATION. <i>Astrophysical Journal</i> , 2015, 813, 11.	4.5	56
6	Simulating the 21Åcm forest detectable with LOFAR and SKA in the spectra of high- z GRBs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 453, 101-105.	4.4	15
7	Lunar occultation of the diffuse radio sky: LOFAR measurements between 35 and 80ÅMHz. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 2291-2305.	4.4	20
8	Polarization leakage in epoch of reionization windows – I. Low Frequency Array observations of the 3C196 field. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 451, 3709-3727.	4.4	58
9	Linear polarization structures in LOFAR observations of the interstellar medium in the 3C196 field. <i>Astronomy and Astrophysics</i> , 2015, 583, A137.	5.1	60
10	Cosmic Dawn and Epoch of Reionization Foreground Removal with the SKA. , 2015, , .		10
11	Data analysis and foreground removal algorithms for 21-cm cosmology experiments. , 2014, , .		0
12	Constraining the epoch of reionization with the variance statistic: simulations of the LOFAR case. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 443, 1113-1124.	4.4	54
13	Initial LOFAR observations of epoch of reionization windows. <i>Astronomy and Astrophysics</i> , 2014, 568, A101.	5.1	67
14	LOFAR insights into the epoch of reionization from the cross-power spectrum of 21Åcm emission and galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 432, 2615-2624.	4.4	23
15	The scale of the problem: recovering images of reionization with Generalized Morphological Component Analysis. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 429, 165-176.	4.4	100
16	Probing reionization with LOFAR using 21-cm redshift space distortions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 435, 460-474.	4.4	69
17	The brightness and spatial distributions of terrestrial radio sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 435, 584-596.	4.4	12
18	Prospects for detecting the 21Åcm forest from the diffuse intergalactic medium with LOFAR. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 428, 1755-1765.	4.4	22

#	ARTICLE	IF	CITATIONS
19	INTERPRETING THE GLOBAL 21 cm SIGNAL FROM HIGH REDSHIFTS. I. MODEL-INDEPENDENT CONSTRAINTS. <i>Astrophysical Journal</i> , 2013, 777, 118.	4.5	35
20	The LOFAR radio environment. <i>Astronomy and Astrophysics</i> , 2013, 549, A11.	5.1	63
21	Initial deep LOFAR observations of epoch of reionization windows. <i>Astronomy and Astrophysics</i> , 2013, 550, A136.	5.1	128
22	Imaging neutral hydrogen on large scales during the Epoch of Reionization with LOFAR. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 425, 2964-2973.	4.4	46
23	An MCMC approach to extracting the global 21-cm signal during the cosmic dawn from sky-averaged radio observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 419, 1070-1084.	4.4	51
24	Probing the first stars and black holes in the early Universe with the Dark Ages Radio Explorer (DARE). <i>Advances in Space Research</i> , 2012, 49, 433-450.	2.6	104
25	Foreground removal using <i>fastica</i> : a showcase of LOFAR-EoR. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 423, 2518-2532.	4.4	141
26	Power spectrum extraction for redshifted 21-cm Epoch of Reionization experiments: the LOFAR case. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, , no-no.	4.4	43
27	Foregrounds for observations of the cosmological 21Åcm line. <i>Astronomy and Astrophysics</i> , 2010, 522, A67.	5.1	94
28	Foregrounds for observations of the cosmological 21Åcm line. <i>Astronomy and Astrophysics</i> , 2009, 500, 965-979.	5.1	148
29	Detection and extraction of signals from the epoch of reionization using higher-order one-point statistics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 393, 1449-1458.	4.4	52
30	Non-parametric foreground subtraction for 21-cm epoch of reionization experiments. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 397, 1138-1152.	4.4	95
31	Fast large-scale reionization simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 393, 32-48.	4.4	91
32	Foreground simulations for the LOFAR-epoch of reionization experiment. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 389, 1319-1335.	4.4	217
33	Constraints on δ_8 from galaxy clustering in N-body simulations and semi-analytic models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 382, 1503-1515.	4.4	13
34	A marked correlation function analysis of halo formation times in the Millennium Simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 367, 1039-1049.	4.4	186
35	Barium Sulphate Precipitation In Porous Rock Through Dispersive Mixing. , 2003, , .		15